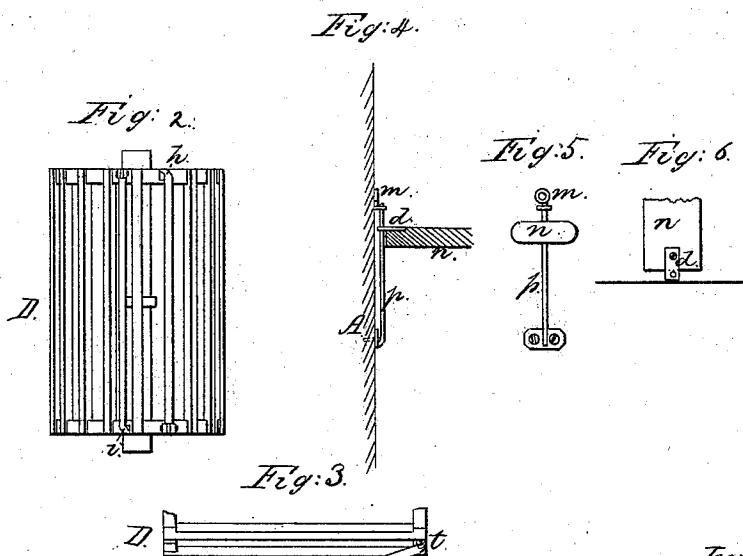
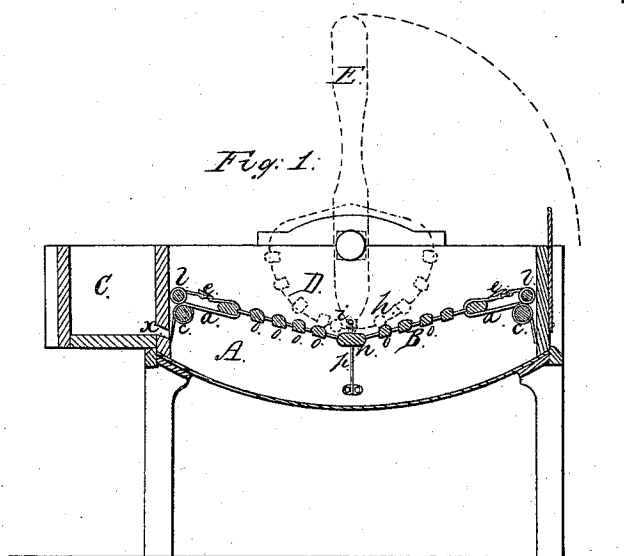


J. G. Dodge,

Washing Machine,

N^o 66,811.

Patented July 16, 1867.



Witnesses;
P. J. Dodge,
Geo. H. Grubel.

Inventor;
J. G. Dodge,
by Dodge & Munn,
his Attorneys.

United States Patent Office.

J. G. DODGE, OF LOUISVILLE, KENTUCKY.

Letters Patent No. 66,811, dated July 16, 1867.

IMPROVED WASHING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. G. DODGE of Louisville, in the county of Jefferson, and State of Kentucky, have invented certain new and useful improvements in Washing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts, wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention consists in certain improvements on the washing machine patented to R. C. Cyphurs, October 25, 1859.

Figure 1 is a longitudinal vertical section.

Figure 2 is a bottom view of the rubber detached; and

Figures 3, 4, 5, and 6, are views of portions represented in detail.

In its general features, my machine resembles that described in the patent referred to, and consists like that of an oblong box, A, mounted on legs of suitable height, having a series of slats, *a*, suspended on rubber straps stretched longitudinally therein, these straps being connected at each end of the box A to a rod, *b*, which is fastened by wire springs at each end to a stationary rod, *c*. Near each end the rubber straps may be provided with buckles, as represented at *e*, for tightening or adjusting the belts and slats, as may be required. To prevent this series of slats from swaying to and fro, when the rubbing-frame D is worked to and fro thereon, I provide the central slat *n* with a metal plate, *d*, at each end, there being a hole in the plate, as represented in fig. 6. I then provide a metal rod, *p*, and attach its lower end to the side of the box A by screws, as shown in figs. 4 and 5, and then slip the plate *d* thereon, and then slip the metal piece *m* over the upper end of the rod *p*, and screw it fast to the side of the box, as shown in figs. 4 and 5. By this means I secure a strong metal guide at each side of the box, on which the slat *n* plays up and down, and by which the series of slats is prevented from becoming displaced, as was frequently the case with the machine as formerly constructed, especially when, by the clothes accumulating at one side, one end of the slat became more depressed than the other, which permitted the other end to fly or slip out of the groove intended to keep it in place.

My next improvement consists in providing the rubbing-frame with a secondary hinged rod, *i*, located in a much narrower space than that occupied by the similar rod *h*, the object of which is to provide means for holding small articles which cannot be secured in the space intended for holding the larger articles. These rods *h* and *i* are hinged at one end to the end piece of the frame D, as shown at *t*, of fig. 3, and when closed are held shut by a spring-catch, which engages in a notch on the opposite bent end of the rod. To place the clothes on the rod it is opened as represented in fig. 3, and the cloth hung on the rod, and the latter then shut, and the washing performed by working the lever E to and fro, by which means the clothes are rubbed back and forth over the slats *n*, the elastic belts permitting the slats to yield, and at the same time tending to press or squeeze the clothes between the slats and the frame D.

My next improvement consists in adding a clothes-box, C, to the end of the machine, as shown in fig. 1. This box is for attaching the wringer to, and to hold the clothes both before and while being wrung, the successive lots of clothes, after being washed, being placed in this box, there being an opening, *x*, to permit the water to flow back into the box A as it drains from the clothes in the box C, or is squeezed from the clothes by the wringer.

By these improvements the machine is greatly improved in its operation and efficiency.

Having thus described my invention, what I claim is—

1. Providing the rubbing-frame with the additional hinged rod *i*, located in the narrow space, as described.
2. Securing the series of slats in place by means of the rod *p*, plate *d*, and piece *m*, arranged as shown and described.

J. G. DODGE.

Witnesses:

W. C. DODGE,
H. B. MUNN.